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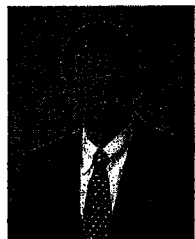
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550 Stadium Mall Dr
Purdue University
West Lafayette, IN 47907
Phone: 765.494.3258
Fax: 765.496.1210



Dr. Indrajeet Chaubey

Associate Professor

E-mail: ichaubey@purdue.edu

Associated website(s):

Education

Ph.D., Oklahoma State University (Biosystems Engineering)

M.S., University of Arkansas (Biological & Agricultural Engineering)

B.S., University of Allahabad, India (Agricultural Engineering)

Research Interests

Ecohydrology, solute and sediment transport at various spatial/temporal scales, development and assessment of best management practices to minimize nonpoint source pollution, spatial variability of natural processes that control hydrologic/water quality watershed response, effect of land use on sediment, nutrient and metal transport, interaction of terrestrial and aquatic processes affecting water quality and linking these processes to develop integrated watershed/water quality management technology, mathematical modeling of sediment, nutrients and metals at different spatial scales, and application of geographic information systems and remote sensing in developing decision support system for ecosystem management.

Awards/Honors Appointment/Elections

- Outstanding Engineer Award (2006)
- Faculty Research Award of Merit (2006)
- ASAE Honorable Mention Paper Award
- Best Teacher Award, 2005. Biological Engineering Student Club, University of Arkansas.
- Outstanding Researcher Award (2002- 2003) Department of Biological and Agricultural Engineering. University of Arkansas, Fayetteville.

Professional Experience

- Chair, Arkansas Section of the ASABE. 2004-2005.
- Chair, SW-21 (Hydrology Group). 2005-2006.



Dr. Indrajit Chaubey

- Member, Environmental Task Force, CAFLS and the Division of Agriculture, University of Arkansas. 2002 – 2006. I was selected by the University of Arkansas Division of Agriculture to take a leadership role (with Dr. T.C. Daniel) in developing this computer software to prepare nutrient management plan for animal waste management in the Eucha-Spavinaw watershed.
- Chair, Graduate Committee, Department of Biological and Agricultural Engineering, University of Arkansas. 2005 – 2006. As the Chair of this committee, I had taken a leadership role in developing policy for qualifying examination and candidacy examination for Ph.D. students, and criteria for deficiency courses for students admitted in the program without an engineering degree. In addition, the graduate committee oversaw the graduate curriculum and all graduate admissions in the department.
- Ecological Engineering Committee, Department of Biological and Agricultural Engineering, 2002 – 2006. Chair, 2000-2003.
- Academic Matters and Curriculum Committee, Department of Biological and Agricultural Engineering, 2002 – 2006. Worked with other faculty members to prepare ABET materials. This involved extensive review of course materials, educational outcome assessment, and document preparation. Worked with other faculty members to revise BENG curriculum, including review of credit hours required for degree in BSBE, review of required and elective courses, sequencing of course offerings, and revision of some of the course materials (e.g., BENG 4903: Natural Resources Engineering).

Publications

- **Chaubey, I.** D. Sahoo, B.E. Haggard, M.D. Matlock, and T.A. Costello. 2007. Nutrient retention, limitation, and sediment interactions in a pasture dominated stream. *Transactions of the ASAE. In Print.*
- Migliaccio, K.W. and **I. Chaubey**. 2007. Multi-site and multi-variable calibration and validation of watershed models – discussion. *Journal of Hydrological Processes. In Print.*
- Sudheer, K.P., **I. Chaubey**, V. Garg, and K.W. Migliaccio. 2007. Impact of time scale of calibration objective function on the performance of watershed models. *Journal of Hydrological Processes. In Print.*
- **Chaubey, I.** and M. Matlock. 2007. Teaching undergraduate students to manage aquatic ecosystems at the watershed level: an ecological engineering approach. *International Journal of Engineering Education. In Print.*
- Sen1, S., B.E. Haggard, **I. Chaubey**, K.R. Brye, T.A. Costello, and M.D. Matlock. 2007. Sediment phosphorus release at Beaver Reservoir, northwest Arkansas, 2002-3. *Air, Soil, and Water Pollution* 179:67-77.

- Migliaccio, K.W., **I. Chaubey**, and B.E. Haggard. 2007. Evaluation of landscape and instream modeling to predict watershed nutrient yields. *Environmental Modeling and Software* 22(7): 987-999
- Sudheer, K.P., **I. Chaubey**, and V. Garg. 2006. Lake water quality assessment from Landsat TM data using neural network: An approach to optimal band combination selection. *Journal of the American Water Resources Association* 42(6):1683-1695.
- Yuan, Y., R.L. Bingner, and **I. Chaubey**. 2006. Phosphorus modeling in the Annualized Agricultural Nonpoint Source Pollution (AnnAGNPS) Model. In *Modeling Phosphorus in the Environment*, D.E. Radcliffe, and M.L. Cabrera (ed.). CRC Press, Boca Raton, FL. Pp. 215-240.
- Chaubey, I., K.L. White, C.H. Green, J.G. Arnold, and R. Srinivasan. 2006. Phosphorus Modeling in Soil and Water Assessment Tool Model. In *Modeling Phosphorus in the Environment*, D.E. Radcliffe, and M.L. Cabrera (ed.). CRC Press, Boca Raton, FL. Pp. 163-188
- **Chaubey, I.** and G.M. Ward. 2006. Hydrologic budget analysis of a small natural wetland in southeastern USA. *Journal of Environmental Informatics* 8(1):10-21.
- Shirmohammadi, A., **I. Chaubey**, R.D. Harmel, D.D. Bosch, R. Munoz-Carpena, C. Dharmasri, A. Sexton, M. Arabi, M.L. Wolfe, J. Frankenberger, C. Graff, and T.M. Sohrabi. 2006. Uncertainty in TMDL models. *Transactions of the ASABE* 49(4):1033-1049.
- Ekka, S.A., B.E. Haggard, M.D. Matlock, and **I. Chaubey**. 2006. Dissolved phosphorus concentrations and sediment interactions in effluent dominated Ozark streams. *Ecological Engineering* 26:375-39
- DeLaune, P.B., B.E. Haggard, T.C. Daniel, **I. Chaubey**, and M.J. Cochran. 2006. The Eucha/Spavinaw Phosphorus Index: A court mandated index for litter management. *Journal of Soil and Water Conservation* 61(2):96-105.

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Indrajeet Chaubey

E-mail: ichaubey@purdue.edu
Website: https://engineering.purdue.edu/ABE/People/ptProfile?resource_id=33986

Unavailability of clean water is one of the grand challenges of modern times. Indrajeet's research integrates field data collection with simulation-based engineering and computational thinking to advance our understanding of fate and transport of water and related constituents across a wide range of spatial and temporal scales. Specifically, he is interested in ecohydrologic processes affecting fate and transport of sediment, nutrients, and pesticides from various land use activities and developing watershed management strategies to improve water quality.

Selected Publications

Chaubey, I. D. Sahoo, B.E. Haggard, M.D. Matlock, and T.A. Costello. 2007. Nutrient retention, limitation, and sediment interactions in a pasture dominated stream. *Transactions of the ASABE*. 50(1): 35-44.

Sudheer, K.P., **I. Chaubey**, V. Garg, and K.W. Migliaccio. 2007. Impact of time scale of calibration objective function on the performance of watershed models. *Journal of Hydrological Processes*. 21(25): 3409-3419

Sen, S., B.E. Haggard, **I. Chaubey**, K.R. Brye, T.A. Costello, and M.D. Matlock. 2007. Sediment phosphorus release at Beaver Reservoir, northwest Arkansas, 2002-3. *Air, Soil, and Water Pollution* 179:67-77

Migliaccio, K.W., **I. Chaubey**, and B.E. Haggard. 2007. Evaluation of landscape and instream modeling to predict watershed nutrient yields. *Environmental Modeling and Software* 22(7): 987-999.

Sudheer, K.P., **I. Chaubey**, and V. Garg. 2006. Lake water quality assessment from Landsat TM data using neural network: An approach to optimal band combination selection. *Journal of the American Water Resources Association* 42(6):1683-1695.

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